

Navajo Nation, Department of Water Resources, Water Management Branch
BIBLIOGRAPHY: Groundwater Reports
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STONE, WILLIAM J., LYFORD, FOREST P., FRENZEL, PETER F.,
MIZELL, NANCY H., AND PADGETT, ELIZABETH T.

HYDROGEOLOGY AND WATER RESOURCES OF SAN JUAN BASIN, NEW
MEXICO HYDROLOGIC REPORT 6

The San Juan Basin of northwest New Mexico contains a wealth of energy resources. Although petroleum reserves are nearly depleted, vast reserves of uranium and coal remain to be extracted. In this arid to semiarid region, surface-water resources are limited and fully appropriated. New water supplies for energy development and growing municipalities must, therefore, be derived from negotiated surface water or ground water.

New Mexico Bureau of Mines and Mineral Resources: Socorro, NM 1983
Notes Includes Maps and Microfilm

BookID/Cat-ID Bookid 1805 Cat 44

THORN, CONDE' R., LEVINGS, GARY W., CRAIGG, STEVEN D., DAM, WILLIAM L.,
AND KERNODLE, JOHN MICHAEL

HYDROGEOLOGY OF THE OJO ALAMO SANDSTONE IN THE SAN JUAN STRUCTURAL BASIN,
NEW MEXICO, COLORADO, ARIZONA, AND UTAH, HYDROLOGIC INVESTIGATION ATLAS
HA-720-B

Includes two maps: Map 1. Hydrologic Investigations; Map 2. Hydrologic Investigations. This report is one in a series resulting from the U.S. Geological Survey's Regional Aquifer-System Analysis (RASA) study of the San Juan structural basin that began in October 1984. The purpose of the RASA (Welder, 1986) are to (1) Define and evaluate the aquifer system; (2) Assess the effects of past, present, and potential ground-water use on aquifers and streams, and (3) determine the availability and quality of ground water. Previous reports in the series describe the hydrology of the Dakota Sandstone (Craig and Others, 1989), Gallup Sandstone (Kernodle and others, 1989), Morrison Formation (Dam and others, 1990), Point Lookout Sandstone (Craig and others, 1990), Pictured Cliffs Sandstone (Dam and others, 1990), Kirtland Shale and Fruitland Formation (Kernodle and others, 1990), Menefee Formation (Levings and others, 1990), and Cliff House Sandstone (Thorn and others, 1990) in the San Juan structural basin. This report summarizes information on the geology and the occurrence and quality of water in the Ojo Alamo sandstone, one of the primary water-bearing units in the regional aquifer system.

Publisher U.S. Department of the Interior Geological Survey :
Reston, VA 1990

Notes Map Scales 1:1,000,000 and 1:2,000,000

BookID/Cat-ID Bookid 1804 Cat 44

LEVINGS, GARY W., CRAIGG, STEVEN D., DAM, WILLIAM L., KERNODLE, JOHN
MICHAEL, AND THORN, CONDE' R.

HYDROGEOLOGY OF THE SAN JOSE, NACIMIENTO, AND ANIMAS FORMATIONS IN THE
SAN JUAN STRUCTURAL BASIN, NEW MEXICO, COLORADO, ARIZONA, AND UTAH,
HYDROLOGIC INVESTIGATIONS ATLAS HA-720-A

Includes two maps: Map 1. Hydrologic Investigations; Map 2. Hydrologic Investigations. This report is one in a series resulting from the U.S. Geological Survey's Regional Aquifer-System Analysis (RASA) study of the San Juan structural basin that began in October 1984. The purpose of the RASA (Welder, 1986) are to (1) Define and evaluate the aquifer system; (2) Assess the effects of past, present, and potential ground-water use on aquifers and streams, and (3) determine the availability and quality of ground water. Previous reports in the series describe the hydrology of the Dakota Sandstone (Craig and Others, 1989), Gallup Sandstone (Kernodle and others, 1989), Morrison Formation (Dam and others, 1990), Point Lookout Sandstone (Craig and others, 1990), Pictured Cliffs Sandstone (Dam and others, 1990), Kirtland Shale and Fruitland Formation (Kernodle and others, 1990), Menefee Formation (Levings and others, 1990), and Cliff House Sandstone (Thorn and others, 1990) in the San Juan structural basin. On a regional scale, the San Jose, Nacimiento, and Animas Formations are hydraulically connected and form one of the primary water-bearing units in the regional aquifer system. This report summarizes information on the geology and the occurrence and quality of water in the San Jose, Nacimiento, and Animas Formations.

Publisher U.S. Department of the Interior Geological Survey:
Reston, VA 1990
Notes Map Scales 1:1,000,000 and 1:2,000,000

BookID/Cat-ID Bookid 1806 Cat 44
MICHAEL, KERNODLE JOHN, THORN, CORDE' R., LEVINGS, GARY W., CRAIGG, STEVEN D., AND DAM, WILLIAM L.
HYDROGEOLOGY OF THE KIRTLAND SHALE AND FRUITLAND FORMATION IN THE SAN JUAN STRUCTURAL BASIN, NEW MEXICO, COLORADO, ARIZONA, AND UTAH HYDROLOGIC INVESTIGATIONS ATLAS HA-720-C
Includes two maps: Map 1. Hydrologic Investigations; Map 2. Hydrologic Investigations. This report is one in a series resulting from the U.S. Geological Survey's Regional Aquifer-System Analysis (RASA) study of the San Juan structural basin that began in October 1984. The purpose of the RASA (Welder, 1986) are to (1) Define and evaluate the aquifer system; (2) Assess the effects of past, present, and potential ground-water use on aquifers and streams, and (3) determine the availability and quality of ground water. Previous reports in the series describe the hydrology of the Dakota Sandstone (Craig and Others, 1989), Gallup Sandstone (Kernodle and others, 1989), Morrison Formation (Dam and others, 1990), Point Lookout Sandstone (Craig and others, 1990), Pictured Cliffs Sandstone (Dam and others, 1990), Menefee Formation (Levings and others, 1990), Cliff House Sandstone (Thorn and others, 1990) and Ojo Alamo Sandstone (Thorn and others, 1990) in the San Juan structural basin.

This report summarizes information on the geology and the occurrences and quality of water in the combined Kirtland Shale and Fruitland Formation, one of the primary water-bearing units in the regional aquifer system. These two formations are treated as a single hydrogeologic unit because they commonly are mapped together, they contain strata of similar lithology, and they have similar hydrologic properties.

Publisher U.S. Department of the Interior Geological Survey:
Reston, VA 1990
Notes Map Scales 1:1,000,000 and 1:2,000,000

BookID/Cat-ID Bookid 1807 Cat 44
DAM, WILLIAM L., KERNODLE, JOHN MICHAEL, THORN, CONDE' R.,
LEVINGS, GARY W., AND CRAIGG, STEVEN D.
HYDROGEOLOGY OF THE PICTURED CLIFFS SANDSTONE IN THE SAN
JUAN STRUCTURAL BASIN, NEW MEXICO, COLORADO, AND UTAH
HYDROLOGIC INVESTIGATIONS ALTAS HA-720-D
Includes two maps: Map 1. Hydrologic Investigations; Map 2.
Hydrologic Investigations. This report is one in a series
resulting from the U.S. Geological Survey's Regional
Aquifer-System Analysis (RASA) study of the San Juan
structural basin that began in October 1984. The purpose of
the RASA (Welder, 1986) are to (1) Define and evaluate the
aquifer system; (2) Assess the effects of past, present, and
potential ground-water use on aquifers and streams, and (3)
determine the availability and quality of ground water.
Previous reports in the series describe the hydrology of the
Dakota Sandstone (Craig and Others, 1989), Gallup Sandstone
(Kernodle and others, 1989), Morrison Formation (Dam and
others, 1990), Point Lookout Sandstone (Craig and others,
1990) Pictured Cliffs Sandstone (Dam and others, 1990),
Kirtland Shale and Fruitland Formation (Kernodle and others,
1990), Menefee Formation (Levings and others, 1990), and
Cliff House Sandstone (Thorn and others, 1990), and Ojo
Alamo Sandstone (Thorn and others, 1990) in the San Juan
structural basin. This report summarizes information on the
geology and the occurrences and quality of water in the
Pictured Cliffs Sandstone, one of the primary water-bearing
units in the regional aquifer system.

Publisher U.S. Department of the Interior Geological Survey:
Reston, VA 1990
Notes Map Scale 1:1,000,000 and 1:2,000,000

BookID/Cat-ID Bookid 64 Cat 44
THORN, C.R., LEVINGS, G.W., CRAIGG, S.D., DAM, W.L., AND
KERNODLE, J.M.
HYDROLOGY OF THE CLIFF HOUSE SANDSTONE IN THE SAN JUAN
STRUCTURAL BASIN, NEW MEXICO, COLORADO, ARIZONA, AND UTAH
This report summarizes knowledge about the hydrogeology of
the Cliff House Sandstone of Late Cretaceous age in the
basin. Data used in this report were derived from data
collected during the study, from existing records in the U.
S. Geological Survey's national, computerized Water-Data

Storage and Retrieval System (WATSTORE) data base, and the Petroleum Information Corporation's data base. All data available for the Cliff House Sandstone were included in the discussions in the text; however, not all data could be plotted on the illustrations.

Publisher U.S. Department of the Interior Geological Survey 1988

BookID/Cat-ID Bookid 65 Cat 44

LEVINGS, G.W., CRAIGG, S.D., DAM, W.L., KERNODLE, J.M., AND THORN, C.R.

HYDROGEOLOGY OF THE MENELEE FORMATION IN THE SAN JUAN STRUCTURAL BASIN, NEW MEXICO, COLORADO, ARIZONA, AND UTAH
This report summarizes information about the hydrogeology of the Menefee Formation of Late Cretaceous age in the basin. Data used in this report were derived from data collected during the study, from existing records in the U.S. Geological Survey's national computerized Water-Data Storage and Retrieval System (WATSTORE) data base, and the Petroleum Information Corporation data base. All data available for the Menefee Formation were included in the discussion in the text; however, not all the data could be plotted on the illustrations.

Publisher U.S. Department of the Interior Geological Survey:
Albuquerque, NM 1988

BookID/Cat-ID Bookid 66 Cat 44

CRAIGG, S.D., DAM, W.L., KERNODLE, J.M., THORN, C.R., AND LEVINGS, G.W.

HYDROGEOLOGY OF THE POINT LOOKOUT SANDSTONE IN THE SAN JUAN STRUCTURAL BASIN, NEW MEXICO, COLORADO, ARIZONA, AND UTAH
This report summarizes information about the hydrogeology of the Point Lookout Sandstone of Late Cretaceous age in the basin. Data used in this report were derived from data collected during the study, from existing reports in the U.S. Geological Survey's national, computerized Water-Data Storage and Retrieval System (WATSTORE) data base, and the Petroleum Information Corporation's data base. All data available for the Point Lookout Sandstone were included in the discussions in the text; however, not all of the data could be plotted on the illustrations.

Publisher U.S. Department of the Interior Geological Survey:
Albuquerque, NM 1988

BookID/Cat-ID Bookid 67 Cat 44

KERNODLE, J.M., LEVINGS, G.W., CRAIGG, S.D., AND DAM, W.L.

HYDROGEOLOGY OF THE GALLUP SANDSTONE IN THE SAN JUAN STRUCTURAL BASIN, NEW MEXICO, COLORADO, ARIZONA, AND UTAH
This is one in a series of reports from the U.S. Geological Survey's San Juan Structural Basin Regional Aquifer-System (RASA) project to define and understand the hydrogeology and geochemistry of the 19,400-square-mile study area. This report contains 14 figures showing geologic, hydrogeologic,

and water-quality data for the Gallup Sandstone.

Publisher U.S. Department of the Interior Geological Survey:
Albuquerque, NM 1987

BookID/Cat-ID Bookid 68 Cat 44

DAM, W.L., KERNODLE, J.M., LEVINGS, G.W., AND CRAIGG, S.D.
HYDROGEOLOGY OF THE MORRISON FORMATION IN THE SAN JUAN
STRUCTURAL BASIN, NEW MEXICO, COLORADO, UTAH, AND ARIZONA
The purpose of this report is to summarize knowledge about
the hydrogeology of the Morrison Formation in the San Juan
Basin. Data used in this report consist of new data
collected during the study and existing records in the U.S.
Geological Survey's computerized WATSTORE (National Water-
Data Storage and Retrieval System) data base and the
Petroleum Information Corporation's data base.

Publisher U.S. Department of the Interior Geological Survey:
Albuquerque, NM 1987

BookID/Cat-ID Bookid 69 Cat 44

CRAIGG, S.D., DAM, W.L., KERNODLE, J.M., AND LEVINGS, G.W.
HYDROGEOLOGY OF THE DAKOTA SANDSTONE IN THE SAN JUAN
STRUCTURAL BASIN, NEW MEXICO, COLORADO, ARIZONA, AND UTAH
This report is one in a series of report resulting from the
U.S. Geological Survey's San Juan Structural Basin Regional
Aquifer-System Analysis (RASA) project to define and
understanding the hydrogeology and geochemistry of the 19,,
400-square-mile study area. This report contains 15 figures
showing geologic, hydrogeologic, and water-quality data that
summarize knowledge about the hydrogeology of the Dakota
Sandstone.

Publisher U.S. Department of the Interior Geological Survey:
Albuquerque, NM 1987

BookID/Cat-ID Bookid 3164 Cat 44

LEVINGS, GARY W., KERNODLE, JOHN M., AND THORN, CONDE R.
SUMMARY OF THE SAN JUAN STRUCTURAL BASIN REGIONAL AQUIFER-
SYSTEM ANALYSIS, NEW MEXICO, COLORADO, ARIZONA, AND UTAH
WATER-RESOURCES INVESTIGATIONS REPORT 95-4188
Ground-water resources are the only source of water in most
of the San Juan structural basin and are mainly used for
municipal, industrial, and stock purposes. Industrial use
increased dramatically during the late 1970's and early
1980's because of increased exploration and development of
uranium and coal resources.

Publisher U.S. Department of the Interior Geological Survey:
Albuquerque, NM 1996

BookID/Cat-ID Bookid 4646 Cat 44

KERNODLE, JOHN MICHAEL
HYDROGEOLOGY AND STEADY-STATE SIMULATION OF GROUND-WATER
FLOW IN THE SAN JUAN BASIN, NEW MEXICO, COLORADO, ARIZONA,
AND UTAH WATER-RESOURCES INVESTIGATIONS REPORT 95-4187

As part of the multidisciplinary regional aquifer-system analysis, a three-dimensional steady-state ground-water-flow model was constructed for the San Juan Basin in parts of New Mexico, Colorado, Arizona, and Utah. The model simulated ground-water flow in 12 hydrostratigraphic units representing all the major source of ground water from aquifers of Jurassic and younger age.

Publisher U.S. Department of the Interior Geological Survey:
Albuquerque, NM 1996

BookID/Cat-ID Bookid 1808 Cat 44

THORN, CONDE'R., LEVINGS, GARY W., CRAIGG, STEVEN D., DAM, WILLIAM L., AND KERNODLE, JOHN MICHAEL
HYDROGEOLOGY OF THE CLIFF HOUSE SANDSTONE IN THE SAN JUAN STRUCTURAL BASIN, NEW MEXICO, COLORADO, ARIZONA, AND UTAH
HYDROLOGIC INVESTIGATIONS ATLAS HA-720-E
Includes two maps: Map 1. Hydrologic Investigations; Map 2. Hydrologic Investigations. This report is one in a series resulting from the U.S. Geological Survey's Regional Aquifer-System Analysis (RASA) study of the San Juan structural basin that began in October 1984. The purpose of the RASA (Welder, 1986) are to (1) Define and evaluate the aquifer system; (2) Assess the effects of past, present, and potential ground-water use on aquifers and streams, and (3) determine the availability and quality of ground water. Previous reports in the series describe the hydrology of the Dakota Sandstone (Craig and Others, 1989), Gallup Sandstone (Kernodle and others, 1989), Morrison Formation (Dam and others, 1990), Point Lookout Sandstone (Craig and others, 1990), Menefee Formation (Levings and others, 1990), and Cliff House Sandstone (Thorn and others, 1990) in the San Juan structural basin. This report summarizes information on the geology and the occurrences and quality of water in the Cliff House Sandstone, one of the primary water-bearing units in the regional aquifer system.

Publisher U.S. Department of the Interior Geological Survey:
Reston, VA 1990

Notes Map Scales 1:1,000,000 and 1:2,000,000

BookID/Cat-ID Bookid 1809 Cat 44

LEVINNGS, GARY W., CRAIGG, STEVEN D., DAM, WILLIAM L., KERNODLE, JOHN MICHAEL, AND THORN, CONDE' R.
HYDROGEOLOGY OF THE MENELEE FORMATION IN THE SAN JUAN STRUCTURAL BASIN, NEW MEXICO, COLORADO, ARIZONA, AND UTAH
HYDROLOGIC INVESTIGATIONS ATLAS HA-720-F
Includes two maps: Map 1. Hydrologic Investigations; Map 2. Hydrologic Investigations. This report is one in a series resulting from the U.S. Geological Survey's Regional Aquifer-System Analysis (RASA) study of the San Juan structural basin that began in October 1984. The purpose of the RASA (Welder, 1986) are to (1) Define and evaluate the aquifer system; (2) Assess the effects of past, present, and

potential ground-water use on aquifers and streams, and (3) determine the availability and quality of ground water. Previous reports in the series describe the hydrology of the Dakota Sandstone (Craig and Others, 1989), Gallup Sandstone (Kernodle and others, 1989), Morrison Formation (Dam and others, 1990), Point Lookout Sandstone (Craig and others, 1990) and Cliff House Sandstone (Thorn and others, 1990) in the San Juan structural basin. This report summarizes information on the geology and the occurrences and quality of water in the Menefee Formation, one of the primary water-bearing units in the regional aquifer system.

Publisher U.S. Department of the Interior Geological Survey:
Reston, VA 1990
Notes Map Scales 1:1,000,000 and 1:2,000,00